



## High Pressure Water Atomizing Dust Control Systems



Air One, Inc. High Pressure Water Atomizing Dust Control Systems are an effective means to control airborne dust generated from material processing and transfer activities. Each system is custom designed and engineered for the facility to be served and are suitable for indoor and outdoor application. The systems operate on the water atomizing principle and agglomeration. The water droplet size is matched as closely as possible to the dust particles suspended in the air and the water and dust particles combine to add weight and bring the dust particle to the ground. These systems use less than 10-gallons per minute and distribute a mist of water droplets in the 5 to 50-micron range. They are the most practical and economical solution for odor and dust suppression in recycling and aggregate producing facilities.

### Product Features and Advantages

**Simple Operation:**

Operated via switches or optional remote control. Valves control multiple zones so water is applied on when and where it is needed.

**Durable and Reliable:**

Each pump is tested prior to installation and comes in epoxy coated steel housings. Motors and fans are duty rated for consistent performance and reliability.

**Available Configurations:**

1. Single zone, self intalled
2. Multiple zone, self installed
3. Multiple zone, Air One installed

**Water & Power Management:**

Spray volume is completely adjustable from 1-gallons per minute (gpm) up to 10-gpm. Electrical consumption can be limited using timers and/or remote controls, optional.

### Technical Specifications

|  |                      |                                  |                 |
|--|----------------------|----------------------------------|-----------------|
| Pump size -----                                    | 1 to 5 hp            | Number of nozzles -----          | up to 500       |
| Water Volume-----                                  | 1 to 10 gpm          | Water pressure requirement ----- | 15 to 35 psi    |
| Pump type -----                                    | direct or belt drive | Distribution pipe size-----      | 3/8-inch dia.   |
| Power requirements -----                           | 120/230-volts        | Droplet size -----               | 5-50microns     |
| Maximum coverage area-----                         | unlimited            | <u>Options</u> -----             | -Interval timer |
| * Results may vary depending on conditions and use |                      | -----                            | -Remote Control |

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